
Planning for Climate Impacts in the Western Lake Superior Region

A workshop to build local & regional climate planning capacity

September 22, 2011

Environmental Protection Agency, Mid-Continental Ecology Division

Duluth, Minnesota

8:00 AM	Registration
8:30 AM	Welcome and Overview Patrick Robinson, University of Wisconsin— Extension
8:35 AM	Opening Remarks Donna Wieting, NOAA, Office of Ocean and Coastal Resource Management
8:45 AM	Climate Change Science and Impacts in the Western Lake Superior Region David S. Liebl, University of Wisconsin-Extension Mark Seeley, University of Minnesota
9:45 AM	Discussion: What Does Climate Change Mean for You? Facilitators: David S. Liebl, University of Wisconsin-Extension, and Mark Seeley, University of Minnesota
10:15 AM	Break
10:30 AM	Economic Implications of Climate Change Impacts to Great Lakes Ports, Harbors, and Marinas Gene Clark, University of Wisconsin Sea Grant Institute Dale Bergeron, University of Minnesota Sea Grant Institute
11:15 AM	Fundamental Concepts in Planning for Climate Change Tashya Allen, The Baldwin Group at NOAA Coastal Services Center
12:00 PM	Lunch
1:00 PM	Community Engagement and Addressing Barriers to Adaptation Jesse Schomberg, University of Minnesota Sea Grant Institute
1:45 PM	Tools and Resources: Introduction to Vulnerability Assessment Tashya Allen, The Baldwin Group at NOAA Coastal Services Center Michael Davidson, ICLEI Local Governments for Sustainability
2:30 PM	Break
2:45 PM	Identifying Vulnerabilities in Your Community Interactive activity led by Tashya Allen, NOAA Coastal Services Center and Michael Davidson, ICLEI Local Governments for Sustainability
3:45 PM	Tools and Resources: Visualizing Climate Impacts David Hart, University of Wisconsin Sea Grant Institute
4:15 PM	Brief World Tour of Climate Adaptation Projects Michael Davidson, ICLEI Local Governments for Sustainability
4:25 PM	Next Steps and Closing Remarks Patrick Robinson, University of Wisconsin-Extension

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Speaker Biographies

David S. Liebl

University of Wisconsin-Extension/University of Wisconsin-Madison

David S. Liebl is a Faculty Associate in the Department of Engineering Professional Development at UW-Madison, and a UW-Cooperative Extension statewide outreach education specialist. He is a member of the Science Council of the Wisconsin Initiative for Climate Change Impacts (WICCI) and chaired the Stormwater, Adaptation and Outreach working groups. His area of focus has been community impacts and adaption to changing patterns of precipitation in Wisconsin, with funding from NOAA and Wisconsin Sea Grant.

Mark Seeley

University of Minnesota, Department of Soil, Water, and Climate

Mark Seeley joined the faculty of the University of Minnesota Department of Soil, Water, and Climate in 1978. Since that time he has served as Extension Climatologist and Meteorologist, working closely with the National Weather Service, the Minnesota State Climatology Office, and various state agencies, as well as regional Extension Offices around the state.

He has served as a weekly commentator on Minnesota Public Radio's "Morning Edition" news program and written the weekly newsletter "Minnesota WeatherTalk" since 1992. Dr. Seeley has edited numerous children's books on weather and climate, and he is author of *Minnesota Weather Almanac* published by the Minnesota Historical Society Press and nominated for the Minnesota Book Awards in 2006. He is also co-author of *Voyageur Skies* (with Don Breneman), published by Afton Press in 2010.

His honors and awards include: the only two-time recipient of the Sigma Xi Scientific Communication and Education Award in 2001 and 2008; recipient in 2003 of the Mn/DOT Research Partnership Award, as leader of a project dedicated to the design and deployment of living snow fences; in 2006 he received the Extension Dean and Director's Award for Distinguished Extension Faculty; in 2007 he received the University of Minnesota Alumni Association Faculty Volunteer Award and the Career Achievement Award from Minneapolis/St Paul Magazine; and in 2009 he received a USDA Extension Award for most effective public program associated with his work as a team member on the Extension Disaster Education Network (EDEN).

Gene Clark

University of Wisconsin Sea Grant Institute

Gene Clark, PE. He is a registered professional engineer in Wisconsin and Minnesota with over 30 years coastal engineering experience. Gene currently serves the University of Wisconsin's Sea Grant Institute as their Coastal Engineering Specialist and the Lake Superior field office manager. Gene has been with Wisconsin Sea Grant since January 2004 serving Great Lakes shoreline owners and ports and harbor managers providing best management practice education and outreach for coastal erosion control, shoreline processes, marina and harbor infrastructure technical assistance.

Gene's coastal engineering career began with three years at the Coastal Engineering Research Center with the US Army Corps of Engineers, over ten years with Great Lakes coastal engineering consulting firms and ten years with the State of Minnesota as their State Lakeshore Engineer assisting communities and port and harbor managers with great lakes shoreline and port and harbor engineering best management practice implementation. Gene serves on the American Society of Civil Engineers coastal practice subcommittee and is the state co-chair of the Great Lakes dredging team.

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Dale Bergeron

University of Minnesota Sea Grant Institute

For nearly a decade, Bergeron has been focused on Great Lakes Ports and Shipping issues. He has extensive previous experience as a business consultant in a number of areas. Currently Bergeron is Vice Chairman of the Duluth Superior Harbor Technical Advisory Committee, an adjunct member of the Coast Guard Region 9 Planning Team, marine security committee, adjunct member of the Great Lakes Maritime Task Force, a member of the international “Green Marine” program, Committee on the Environment, and a member of the Editorial Board of the Great Lakes Seaway Review.

Recently Bergeron was recognized by the Great Lakes Sea Grant Network, for his efforts as the coordinator for the Great Lakes Ballast Water Collaborative, a joint effort by the St. Lawrence Seaway Development Corp. and the International Joint Commission to address Ballast Water issues and policy concerns in the Great Lakes and beyond. This effort seeks to provide the best available science based information available on the state of ballast water technology for the use of regional, national, and international policy makers. It also seeks to address the unique concerns of the Great Lakes fleets, ports, and communities.

Bergeron also works collaboratively with other members of the Sea Grant Network and NOAA. In July, at the Coastal Zone 11 Conference in Chicago, he participated as part of an expert panel, reporting on the potential economic impacts of climate change on port and harbor infrastructure, and Great Lakes shipping (the research was part of a major NOAA climate change grant).

Tashya Allen

The Baldwin Group at the National Oceanic and Atmospheric Administration

Tashya Allen is a Hazards Specialist working for The Baldwin Group at the National Oceanic and Atmospheric Administration’s (NOAA) Coastal Services Center, headquartered in Charleston, S.C. The Center supports state and local coastal resource managers throughout the coastal U.S. and Great Lakes. Tashya’s background is in community-based vulnerability assessment. She also specializes in the development of decision support tools for hazards management and community resilience planning.

Jesse Schomberg

University of Minnesota Sea Grant Institute

Jesse Schomberg is the Extension Program Leader and Coastal Communities Extension Educator for the University of Minnesota Sea Grant Program, with expertise in stream ecology, stormwater runoff, connections between the landscape and water quality, and hydrologic simulation modeling. Mr. Schomberg has conducted NEMO (Nonpoint Education for Municipal Officials) programming for Sea Grant since 2002. He has a B.S. degree in biology from the University of Minnesota Duluth and an M.S. in biology from Idaho State University.

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Michael Davidson

ICLEI—Midwest Regional Director

Michael Davidson became the Midwest Regional Director of ICLEI USA in April 2010. His diverse, 13-state region includes the western Great Lakes and most of the Great Plains. Michael is responsible for aligning the mission of ICLEI USA with Midwestern values and local government practices. He builds capacity for the Chicago-based regional office to provide customized support to nearly 90 local governments throughout the Midwest, strengthen partnerships with the region's sustainability leaders, and improve day-to-day operations performance.

Michael understands the complexity of serving large geographies. His previous job was with the Great Lakes Protection Fund, where he worked on innovative solutions to improve the physical, biological, and chemical integrity of the Great Lakes and its vast basin. Before that, he managed the Campaign for Sensible Growth, an action-oriented coalition of government, civic, and business leaders in northeastern Illinois working to promote economic development while preserving open space, minimizing the need for costly new infrastructure, and improving the livability of communities in the region and around the state.

Michael spent nearly a decade in the research department of the American Planning Association (APA) where he led a team of researchers in carrying out the functions of APA's Planning Advisory Service, helping city planning practitioners solve land-use disputes and implement smart development practices. Michael served as editor of Zoning Practice, an APA monthly publication featuring best practices in zoning and land-use policy, and was a regular contributor to APA's many programs of applied research, resulting in practical information about best practices in urban and regional planning in the U.S. Michael earned his graduate degree with distinction from the Public Services Management program at DePaul University.

David Hart

University of Wisconsin Sea Grant Institute

David Hart is the Geographic Information Systems Specialist at the University of Wisconsin Sea Grant Institute. Through this position, he conducts research and provides outreach that supports sustainable coastal development along the Great Lakes. David's research occurs at the intersection of geographic information science, urban planning, and environmental management. He has developed methods for discovery, acquisition, integration, and analysis of local geospatial data for use in decision-making about coastal management issues at a regional scale. David co-chairs the WICCI Coastal Community Working Group and is collaborating with Minnesota Sea Grant on a new initiative to provide climate adaptation implementation assistance for Great Lakes communities.